TRANE™

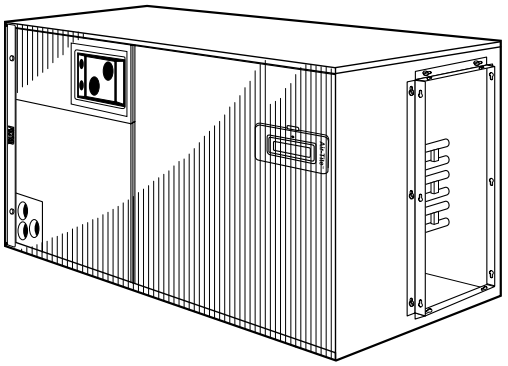
36,000 - 62,000 BTUH
Nominal Capacity

II+ *systems*

Dual Circuit
Split Coil
Convertible
Air Handler

STANDARD EQUIPMENT
2TEE3F62A, 4TEE3F62B
VARIABLE SPEED AIR HANDLER

- Ships horizontal - converts to vertical by standing on end.
- Six-way convertibility-horizontal (left & right); front & rear access; upflow,downflow
- Electical, refrigerant, condensate & blower access convertible to either side
- Compact 21" depth for easy instalation
- Split coil with two separate circuits
- Variable speed ECM motor
- Direct drive motor
- Soft start - cycle-on speed is changed gradually to reduce noise and draft
- 200/230 volt primary and 24 volt secondary transformer
- 1 Inch thick Insulated cabinet
- Easy Air-Tite™ access to coils
- Corrosion resistant galvanized metal with attractive finish
- Low voltage terminal board
- External brazed refrigerant connection
- Standard filters and filter rack
- Check valve for heat pump application
- Expansion valve refrigerant control
- Enhanced internally finned coil tubing
- Access to heater circuit breakers
- Polarized plugs for making electrical connections from air handler control box to electric heaters
- Single point power entry
- Primary and secondary drain connections
- Built-in indoor fan delay function for increased efficiency



	1st Stage	2nd Stage
Fan CFM		
E.S.P. (inch W.G.)	N/A	
Capacities		
Cooling Total		
Cooling Sensible		
E.A.T. (D.B./W.B.)		
L.A.T. (D.B./W.B.)		
Heating High*		
Heating Low*		
Heating @_____°F		
with _____°F E.A.T.		
Outdoor Model(s)		
Volts/Phase/Hertz		
Auxiliary Heater (KW)		
Thermostat Model		

*@ A.R.I. Rating Conditions

OPTIONAL EQUIPMENT

OPTIONAL EQUIPMENT FOR AIR HANDLERS (check mark [ ] indicates accessories included.)

Plenum Pedestal Upflow ..... TAYPLNM100 [ ]
Sub-base For Downflow ..... TAYBASE102 [ ]
Filter Enclosure For vertical downflow ..... BAY85X073 [ ]
Evaporator Defrost Control Kit - Cooling Units (Low Ambient Cooling) ..... AY28X079 [ ]
Evaporator Defrost Control Kit - Heat Pumps (Low Ambient Cooling) ..... AY28X084 [ ]
Knock out cover plate (Required if heater not used) ..... AY99X123 [ ]

PUB. NO. 32-1062-06
03/07

PRODUCT SPECIFICATIONS

MODEL	2/4TEE3F62		
RATED VOLTS/PH/HZ	200/230/1/60		
INDOOR COIL - TYPE	Plate Fin		
Rows - F.P.I.	4 - 14		
Face Area (sq. ft.)	7.3		
Tube Size (in.)	3/8		
Refrigerant Control	2 - TXV NonBleed		
Drain Connection Size (in.)	3/4 NPT		
INDOOR FAN - TYPE	Centrifugal		
Dia. - Width (in.)	10X10		
No. Used	1		
Drive - Speeds (No.)	Direct - 16		
CFM vs. in. w.g.	SEE FAN TABLE		
No. Motors - H.P.	1 - 1.0		
Motor Speed R.P.M.	Variable		
Volts/Ph/hz	200/230/1/60		
F.L. Amps	7		
FILTER - Furnished?	YES		
Type Recommended (No. - Size - Thk.)	High Velocity 1 - 20 x 25 x 1 in.		
REFRIGERANT	**R-22**	**R-410A**	
Ref. Line Connections	Holding Charge	Holding Charge	
Gas Line - Conn. Size in.	Braze 3/4	Braze 3/4	
Liquid Line - Conn. Size in.	3/8	5/16	
DIMENSIONS	H	W	D
Uncrated (in.)	62-1/4	28-1/2	23-1/2
WEIGHT			
Shipping (lbs.) / Net (lbs.)	218 /196		

PRESSURE DROP FOR ELECTRIC HEATERS IN 2TEE3F62A, 4TEE3F62B AIR HANDLERS

NO. OF RACKS	1	2	3	4	5
HEATER MODELS	BAYHTR1405	BAYHTR1408 BAYHTR1410 BAYHTR3410	BAYHTR1415 BAYHTR3415	BAYHTR1419	BAYHTR1425
AIRFLOW (CFM)	AIRFLOW PRESSURE DROP (INCHES WATER GAUGE)				
600	0.01	0.02	0.02	N/A	N/A
700	0.01	0.02	0.02	N/A	N/A
800	0.02	0.03	0.03	0.04	N/A
900	0.03	0.03	0.04	0.05	N/A
1000	0.04	0.04	0.05	0.05	N/A
1100	0.04	0.05	0.06	0.07	0.08
1200	0.05	0.06	0.07	0.08	0.09
1300	0.06	0.07	0.08	0.09	0.11
1400	0.07	0.08	0.10	0.11	0.13
1500	0.08	0.09	0.11	0.13	0.15
1600	0.09	0.10	0.12	0.15	0.17
1700	0.10	0.11	0.14	0.17	0.19
1800	0.11	0.13	0.16	0.19	0.21
1900	0.13	0.15	0.18	0.21	0.23
2000	0.14	0.17	0.20	0.23	0.26

NOTES:
1. See Prodouct Data or Air Handler nameplate for approved combinations of Air handlers and Heaters.
2. Heater models numbers may have additonal suffix digits.
3. N/A - Not Appplicable

MINIMUM AIRFLOW WITH AUXILIARY HEAT		**HEATER MODEL NUMBER BAYHTR----**					
MODEL NUMBER	**APPLICATION**	1405 4.80kw	1408 7.68kw	1410 3410 9.60kw	1415A3-415 15.36kw	1419 19.20kw	1425 24.96kw
NUMBER OF HEATER RACKS		1	2	2	2	4	5
2TEE3F62A 4TEE3F62B	A/C or Elec. Furnace	900	900	900	1200	1200	1200
	Heat Pump	1500	1500	1500	1800	1800	1800

2TEE3F62A/4TEE3F62B WIRING DATA
(Indoor Blower Motor Powered from Heater Circuit *)

Heater Model No.	Number of Circuits /Phase	240 VOLT					208 VOLT				
		Capacity		Heater Amps per Circuit 240	Minimum Circuit Ampacity 240	Maximum Overload Protection 240	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		KW	BTUH				KW	BTUH			
BAYHTR1405 +++	1/1	4.80	16400	20	34	35	3.60	12300	17.3	30	30
BAYHTR1408 +++	1/1	7.68	26200	32	49	50	5.77	19700	27.7	43	45
BAYHTR1410 +++	1/1	9.60	32800	40	59	60	7.20	24600	34.7	52	60
BAYHTR3410 000	1/3	9.60	32800	34.6	43	45	7.20	24600	30	37	40
BAYHTR1415 BRK	2/1	15.36	52400	44/20	59*/30	60*/30	11.53	39300	38.2/17.3	52*/26	60*/30
BAYHTR3415 000	1/3	15.36	52400	38.2	55	60	11.53	39300	33	49	50
BAYHTR1419 BRK	2/1	19.2	65500	32/48	49*/60	50*/60	14.42	49200	27.7/41.6	43*/52	45*/60
BAYHTR1425 BRK	3/1	24.96	85200	44/40/20	55/59*/25	60/60*/25	18.73	63900	38.1/34.6/17.3	48/50*/22	50/60*/25

NOTES:
* Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
+++ = 000, BRK, PDC 000 = pigtails, BRK = contains circuit breakers, PDC = contains pull disconnect
IMPORTANT: Any power supply and/or combination power supply, circuit or circuits must be wired and protected in accordance with local Electrical Codes.

2TEE3F62A / 4TEE3F62B AIR HANDLER AIRFLOW (CFM) VS. EXTERNAL STATIC PRESSURE WITH FILTER

OUTDOOR UNIT SIZE (TONS)	AIRFLOW SETTING	DIP SWITCH SETTING					EXTERNAL STATIC PRESSURE					
		SW 1	SW 2	SW 3	SW 4		0.1	0.2	0.3	0.5	0.7	0.9
2 - 1.5 TON	LOW (350 CFM/TON)	ON	ON	OFF	ON	CFM watts	1030 135	1030 160	1030 185	1015 235	1000 285	975 325
	NORMAL (400 CFM/TON)	ON	ON	OFF	OFF	CFM watts	1170 195	1170 225	1170 255	1170 315	1170 375	1170 435
	HIGH (450 CFM/TON)	ON	ON	ON	OFF	CFM watts	1320 255	1325 295	1340 330	1370 405	1375 480	1365 545
2 - 1.5 TON	LOW (350 CFM/TON)	OFF	ON	OFF	ON	CFM watts	1195 210	1195 240	1195 320	1195 340	1195 385	1195 440
or	NORMAL (400 CFM/TON)	OFF	ON	OFF	OFF	CFM watts	1380 290	1405 345	1425 390	1440 450	1440 515	1425 580
2 - 2 TON	HIGH (450 CFM/TON)	OFF	ON	ON	OFF	CFM watts	1620 420	1620 455	1630 495	1645 565	1625 636	1590 695
2 - 2 TON	LOW (350 CFM/TON)	ON	OFF	OFF	ON	CFM watts	1365 265	1385 315	1405 365	1430 450	1450 505	1440 575
or	NORMAL (400 CFM/TON)	ON	OFF	OFF	OFF	CFM watts	1630 435	1640 470	1650 505	1650 575	1640 640	1620 700
2 - 2.5 TON	HIGH (450 CFM/TON)	ON	OFF	ON	OFF	CFM watts	1860 570	1860 620	1860 680	1860 785	1850 825	1710 830
2 - 2.5 TON	LOW (350 CFM/TON)	OFF	OFF	OFF	ON	CFM watts	1830 530	1810 565	1810 605	1830 730	1795 790	1740 805
or	NORMAL ** (400 CFM/TON)	OFF	OFF	OFF	OFF	CFM watts	2080 800	2075 855	2065 895	2010 925	1890 905	1750 870
2 - 3 TON	HIGH (450 CFM/TON)	OFF	OFF	ON	OFF	CFM watts	2275 1015	2225 1005	2170 995	2035 955	1880 900	1750 840

NOTES:
1. ** Factory setting
2. At continuous Fan Setting: Airflow values are approximately 50% of listed values.
3. For Variable Speed: low speed airflows are approximately 30% of listed values.
4. With wet coil, filter in place. No heater installed.

INDOOR BLOWER TIMING

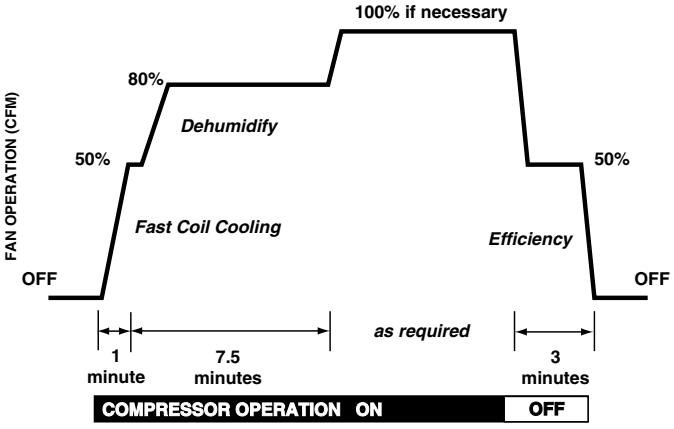
The ECM Fan Control controls the variable speed indoor blower. The FAN-OFF period is set on the ECM Fan Control board by dip switches #5 and #6. The blower off-delay settings are as follows:

COOLING OFF - DELAY OPTIONS

SWITCH SETTINGS		SELECTION	NOMINAL AIRFLOW
5 - OFF	6 - OFF	NONE	SAME
5 - ON	6 - OFF	1.5 MINUTES	100% *
5 - OFF	6 - ON	3 MINUTES	50%
5 - ON	6 - ON	**ENHANCED	50 - 100%

* - This setting is equivalent to the BAY24X045 relay benefit

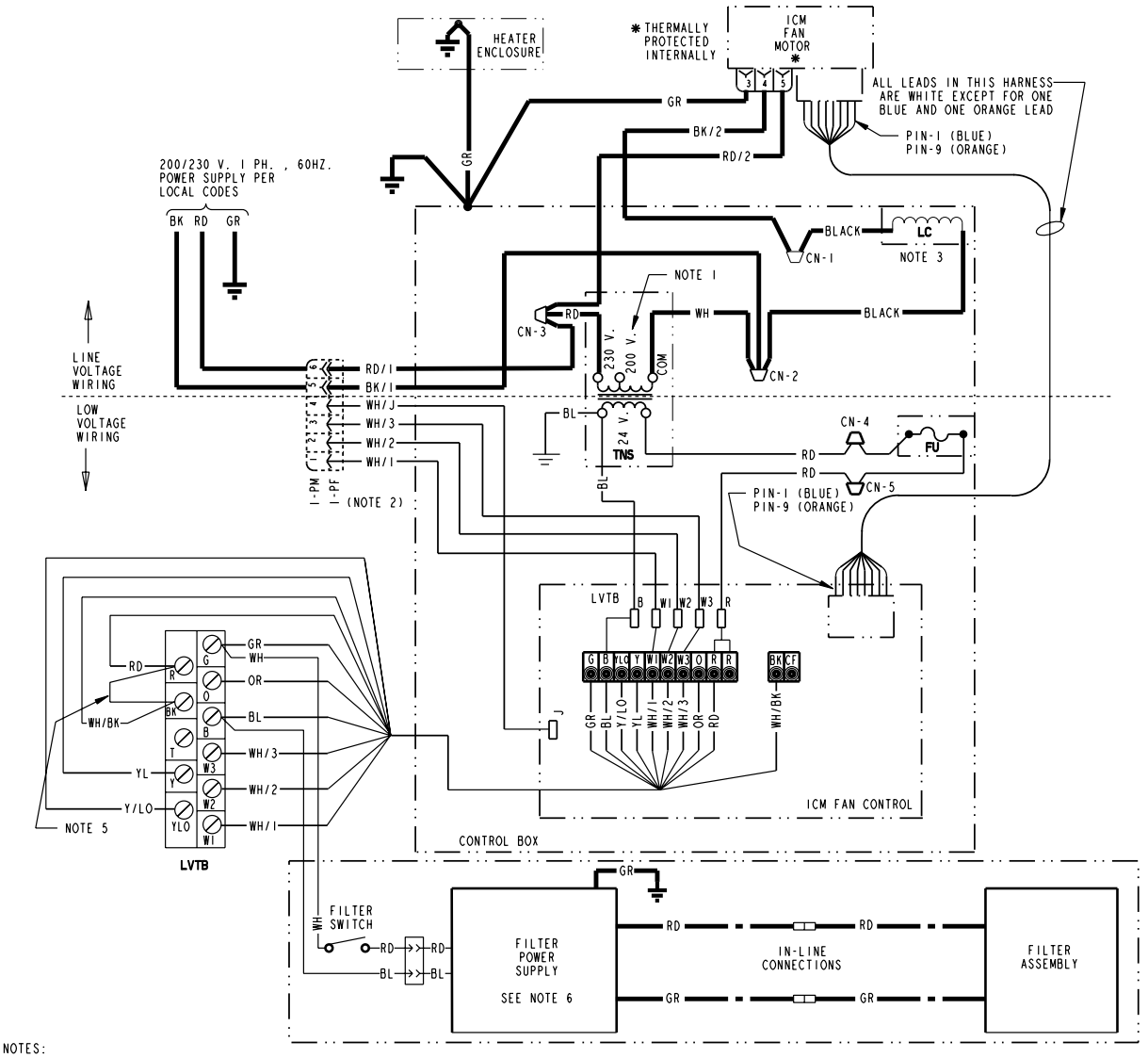
** - This ENHANCED MODE selection provides a ramping up and ramping down of the blower speed to provide improved comfort, quietness, and potential energy savings. The attached graph shows the ramping process.



2TEE3F62A / 4TEE3F62B AIR HANDLER AIRFLOW WITH AUXILIARY HEAT (CFM)

SWITCH SETTINGS	SELECTION	NOMINAL AIRFLOW
7-OFF 8-OFF	HIGH	1800 CFM
7-ON 8-OFF	MED-HIGH	1500 CFM
7-OFF 8-ON	MED-LOW	1200 CFM
7-ON 8-ON	LOW	900 CFM

WIRING DIAGRAM FOR AIR HANDLER



NOTES:

1. FOR 200V OPERATION SWAP RED TRANSFORMER LEAD AND INSULATED CAP ON 200V CENTER TRANSFORMER TERMINAL.
2. WHEN HEATERS ARE USED, DISCARD 1-PM WITH ATTACHED LEADS AND CONNECT 1-PF TO THE MATING PLUG IN THE HEATER CONTROL BOX.
3. LINE CHOKE MAY NOT BE USED ON ALL MODELS. BK/2 LEAD IN CN-2 IF CHOKE NOT USED.
4. FOR COOLING SYSTEMS Y MUST BE CONNECTED TO THE LVTB, FOR HEAT PUMP SYSTEM Y AND O MUST BE CONNECTED TO THE LVTB. FOR TWO SPEED SYSTEMS, USE YLO FOR LOW SPEED AND Y FOR HIGH SPEED, CONNECT TO THE LVTB.
5. IF OPTIONAL HUMIDISTAT IS USED, REMOVE R TO BK JUMPER ON TERMINAL BOARD AND INSTALL HUMIDISTAT BETWEEN R AND BK. JUMPER R TO O FOR COOLING-ONLY NON-HEAT PUMP SYSTEMS WITH A HUMIDISTAT.
6. FILTER POWER SUPPLY WIRING MAY NOT BE USED ON ALL MODELS.
7. FOR REPLACEMENT FUSE, USE LITTLEFUSE LMF 3-2/10 OR BUSSMAN GMQ 3-2/10

MODEL
2TEE3D**
4TEE3D**
2TEE3F**
4TEE3F**

*SIGNIFIES ALL DIGITS USED IN THIS SPACE

LEGEND

- 24 V. / LINE V. — FACTORY WIRING
- 24 V. / LINE V. — FIELD WIRING
- 15 KV WIRING
- GROUND
- JUNCTION
- CAPACITOR
- WIRE NUT OR CONNECTOR
- TERMINAL
- TRANSFORMER
- FUSE
- TERMINAL BLOCK/BOARD
- RELAY CONTACT NO
- MAGNETIC COIL
- POL.PLUG FEMALE HOUSING (MALE TERMINALS)
- POL. PLUG MALE HOUSING (FEMALE TERMINALS)

CN	WIRE CONNECTOR
FU	FUSE
ICM	INTEGRAL CONTROL MOTOR
LC	LINE CHOKE
LVTB	LOW VOLTAGE TERMINAL BLOCK
PF	POLARIZED PLUG (FEMALE HOUSING)
PM	POLARIZED PLUG (MALE HOUSING)
TNS	TRANSFORMER

COLOR OF WIRE — BK/BL — BLACK WIRE WITH BLUE MARKER — COLOR OF MARKER

BK	BLACK	RD	RED	OR	ORANGE
BL	BLUE	WH	WHITE	GR	GREEN
BR	BROWN	YL	YELLOW	PR	PURPLE

⚠ CAUTION

USE COPPER CONDUCTORS ONLY!

UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

Failure to do so may cause damage to the equipment.

⚠ WARNING

HAZARDOUS VOLTAGE!

DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.

Failure to disconnect power before servicing can cause severe personal injury or death.

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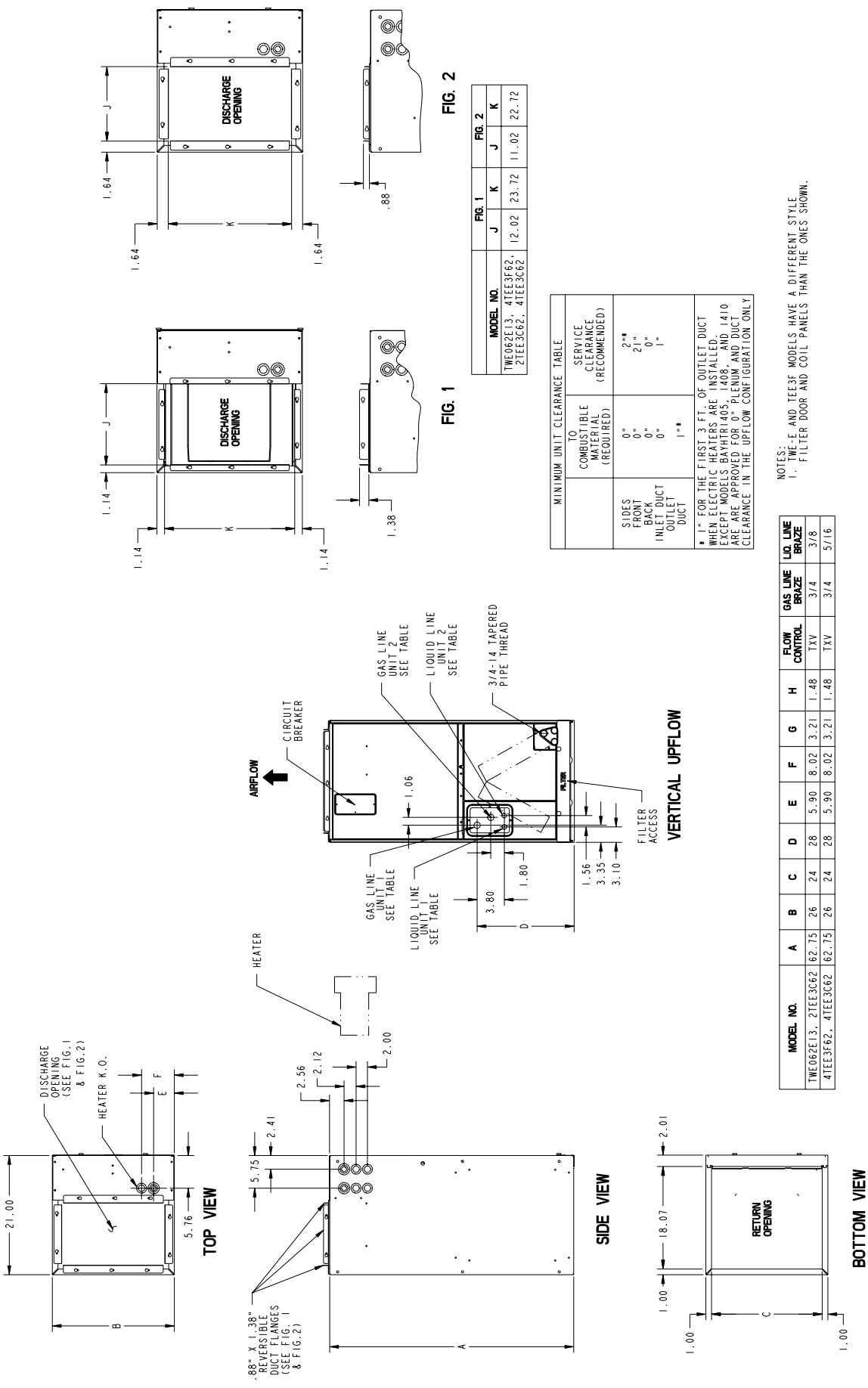
D801995 P01 REV01

OUTLINE DRAWING FOR 2/4TEE3F62



MODEL NO.	FIG. 1		FIG. 2	
	J	K	J	K
TWE062E13, 4TEE3F62, 2TEE3C62, 4TEE3C62	12.02	23.72	11.02	22.72

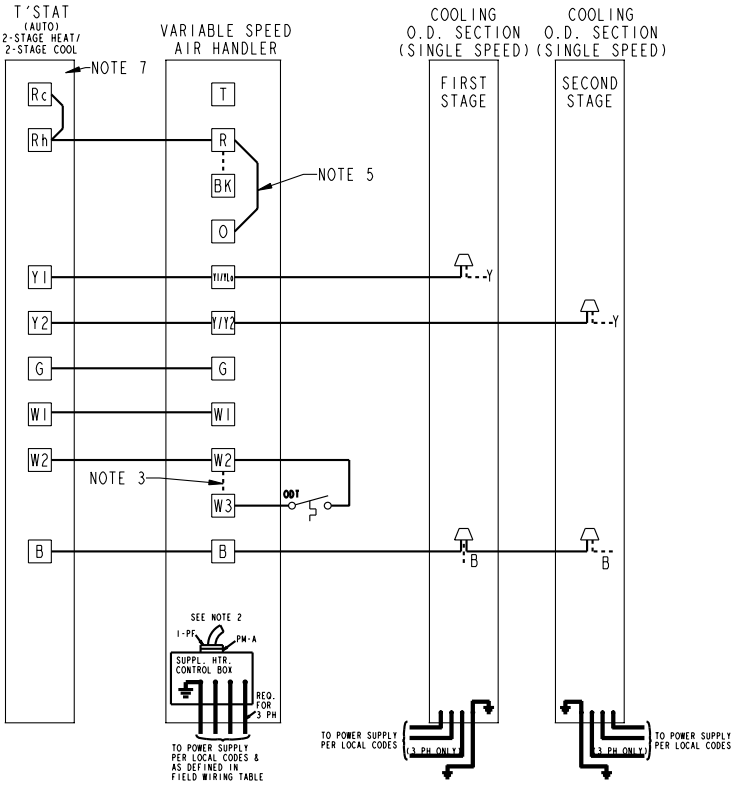
MINIMUM UNIT CLEARANCE TABLE		
	TO COMBUSTIBLE MATERIAL (REQUIRED)	SERVICE CLEARANCE (RECOMMENDED)
SIDES	0"	2"*
FRONT	0"	21"
BACK	0"	0"
INLET DUCT	0"	1"
OUTLET DUCT	1"*	

* 1" FOR THE FIRST 3 FT. OF OUTLET DUCT WHEN ELECTRIC HEATERS ARE INSTALLED, EXCEPT MODELS BATHTR1405, 1408, AND 1410 ARE ARE APPROVED FOR 0" PLENUM AND DUCT CLEARANCE IN THE UPFLOW CONFIGURATION ONLY

NOTES:
1. TWE-E AND TEE3F MODELS HAVE A DIFFERENT STYLE FILTER DOOR AND COIL PANELS THAN THE ONES SHOWN.

MODEL NO.	A	B	C	D	E	F	G	H	FLOW CONTROL	GAS LINE BRAZE	LIQ. LINE BRAZE
TWE062E13, 2TEE3C62	62.75	26	24	28	5.90	8.02	3.21	1.48	TXV	3/4	3/8
4TEE3F62, 4TEE3C62	62.75	26	24	28	5.90	8.02	3.21	1.48	TXV	3/4	5/16

AIR HANDLER WITH 2 STAGE COOLING, 2 STAGE HEAT MANUAL THERMOSTAT

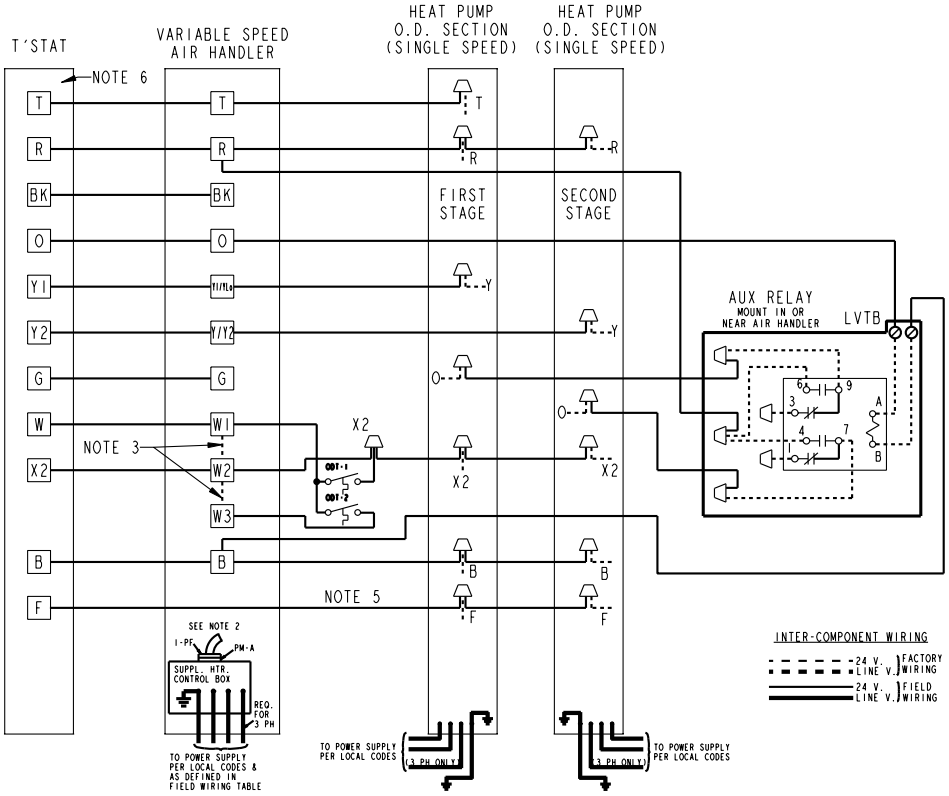


NOTES:

1. LOW VOLTAGE WIRING TO BE NO. 18 A.W.G. MINIMUM CONDUCTOR.
2. WHEN HEATERS ARE USED, DISCARD POWER LEADS WITH POLARIZED PLUG PM-A AND CONNECT 1-PF TO MATING PLUG IN THE HEATER CONTROL BOX AS SHOWN.
3. IF ODT IS NOT USED, THEN CONNECT APPROPRIATE JUMPER FROM W2 TO W3 ON LVTB.
4. SEE INSTALLERS GUIDE IN AIR HANDLER FOR PROPER SPEED TAP SETTINGS.
5. IF OPTIONAL HUMIDISTAT IS USED, FACTORY INSTALLED JUMPER "R" TO "BK" MUST BE REMOVED AND A JUMPER BETWEEN "R" AND "O" MUST BE INSTALLED BY FIELD.
6. TERMINAL W2 WILL HAVE INTERNAL CONNECTIONS ONLY IF 2ND CONTACTOR IS USED BY THE HEATER FOR CONTROLLING POWER TO ELECTRIC HEATING ELEMENTS. IF 2ND (BH) CONTACTOR IS NOT USED, THEN FIELD CONNECTIONS TO W2 CAN BE OMITTED AS APPROPRIATE.
7. SEE HEATER WIRING DIAGRAM FOR HEATING ANTICIPATOR SETTING.

From Dwg. 21B801076

AIR HANDLERS WITH 2 STAGE HEAT PUMP, 2 STAGE HEAT AUTOMATIC OR MANUAL CHANGE OVER THERMOSTAT



NOTES:

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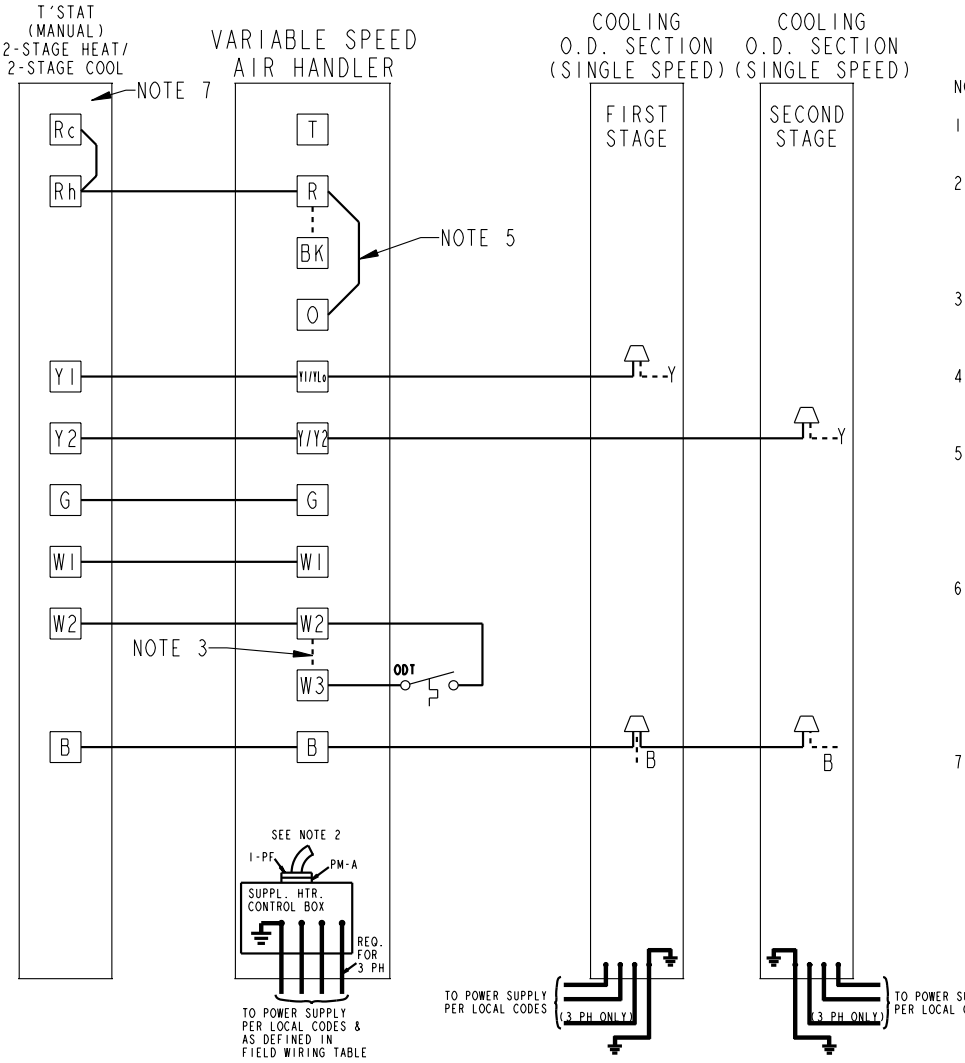
3. IF ODT IS NOT USED, THEN CONNECT APPROPRIATE JUMPER FROM W1 TO W2 TO W3 ON LVTB.
4. TERMINAL W2 & W3 WILL HAVE INTERNAL CONNECTIONS ONLY IF 2ND& 3RD CONTACTORS ARE USED BY THE HEATER FOR CONTROLLING POWER TO ELECTRIC HEATING ELEMENTS. IF 2ND & 3RD (BH & CH) CONTACTORS ARE NOT USED, THEN FIELD CONNECTIONS TO W2 & W3 CAN BE OMITTED AS APPROPRIATE.
5. CONNECT IN THIS MANNER IF O.D. UNIT HAS "F" CONNECTION.
6. SEE HEATER WIRING DIAGRAM FOR HEATING ANTICIPATOR SETTINGS.

From Dwg. 21B801073

AIR HANDLER WITH 2 STAGE COOLING UNIT, 2 STAGE HEAT AUTOMATIC CHANGE OVER THERMOSTAT



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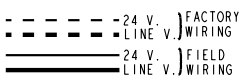
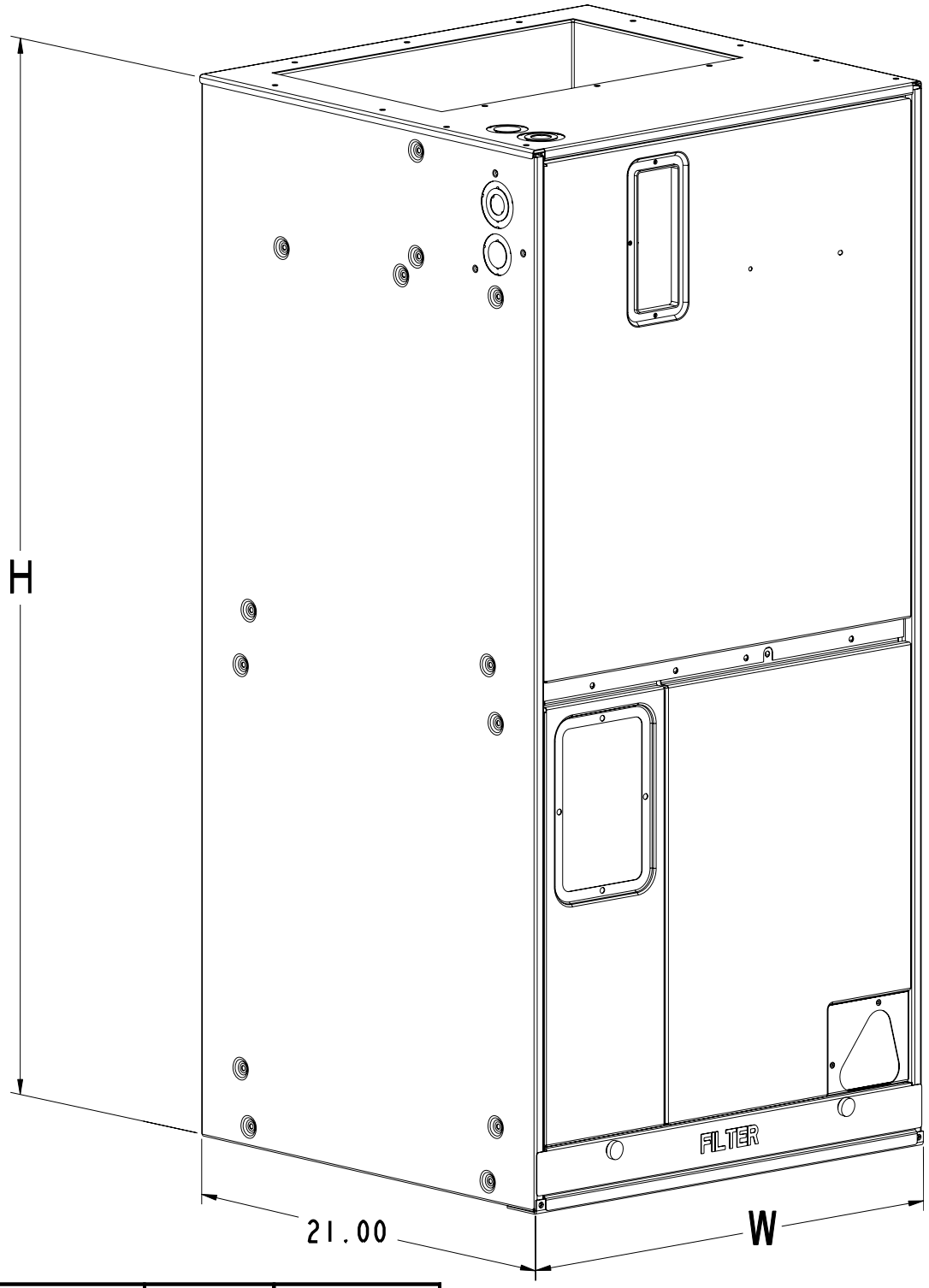
2. WHEN HEATERS ARE USED, DISCARD POWER LEADS WITH POLARIZED PLUG PM-A AND CONNECT 1-PF TO MATING PLUG IN THE HEATER CONTROL BOX AS SHOWN.
3. IF ODT IS NOT USED, THEN CONNECT APPROPRIATE JUMPER FROM W2 TO W3 ON LVTB.
4. SEE INSTALLERS GUIDE IN AIR HANDLER FOR PROPER SPEED TAP SETTINGS.
5. IF OPTIONAL HUMIDISTAT IS USED, FACTORY INSTALLED JUMPER "R" TO "BK" MUST BE REMOVED AND A JUMPER BETWEEN "R" AND "O" MUST BE INSTALLED BY FIELD.
6. TERMINAL W2 WILL HAVE INTERNAL CONNECTIONS ONLY IF 2ND CONTACTOR IS USED BY THE HEATER FOR CONTROLLING POWER TO ELECTRIC HEATING ELEMENTS. IF 2ND (BH) CONTACTOR IS NOT USED, THEN FIELD CONNECTIONS TO W2 CAN BE OMITTED AS APPROPRIATE.
7. SEE HEATER WIRING DIAGRAM FOR HEATING ANTICIPATOR SETTING.

INTER-COMPONENT WIRING



From Dwg. 21B801075

2TEE3F62A, 4TEE3F62B DIMENSIONAL DATA



Model No.	H	W
2TEE3F62A 4TEE3F62B	62.75	26.00